

Amendments to the Drawings:

The attached 34 sheets of drawings include changes to Figure 16A. Figure 16A corrects the typographical error, which was located in the second line of the drawing. The SMP number was incorrectly listed as "248" and has been corrected to read "348". These sheets, which include Fig. 16A, replace the original sheets including Fig. 16A.

Attachment: 34 Replacement Sheets, Figures 1A – 26C

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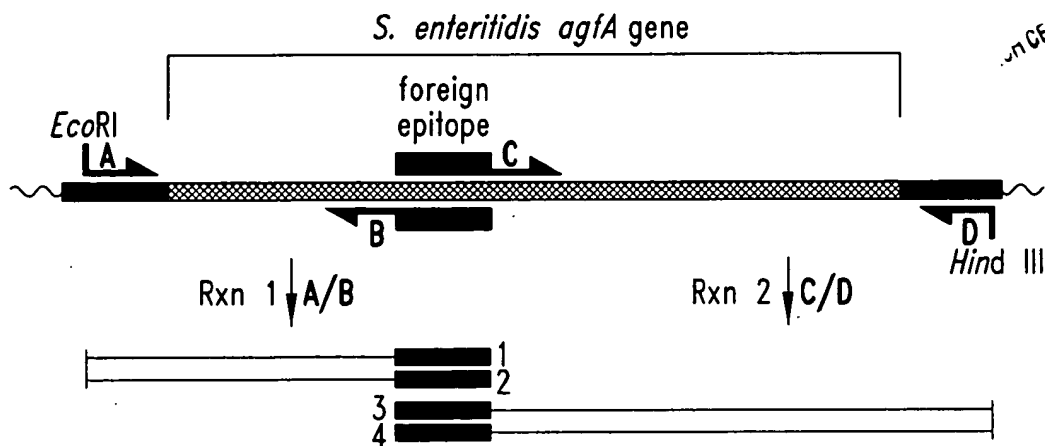


Fig. 1A

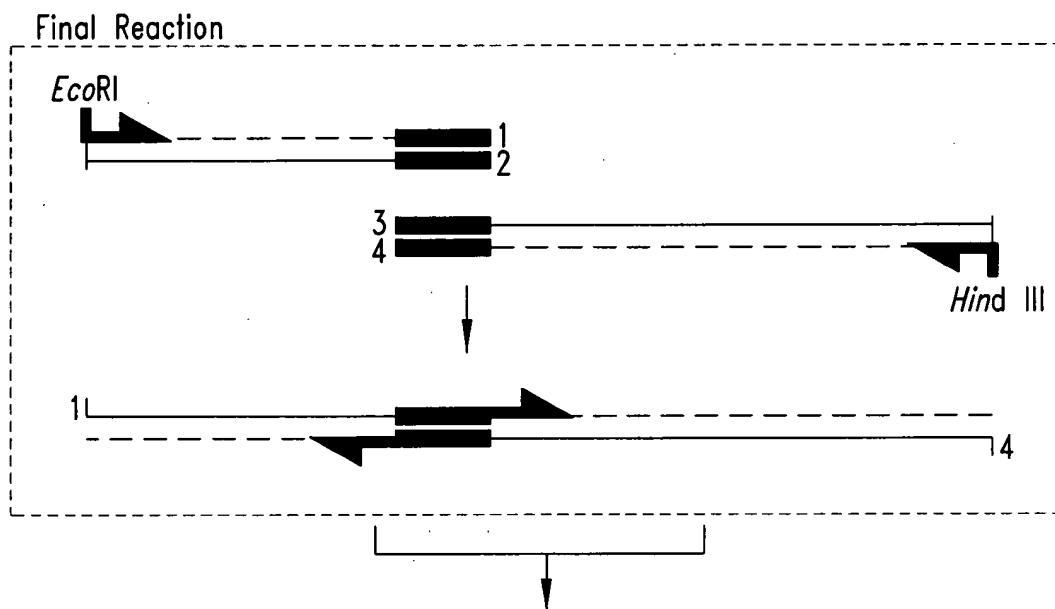


Fig. 1B

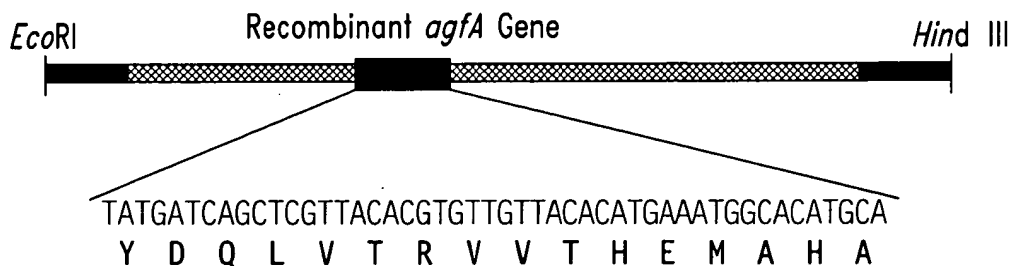


Fig. 1C

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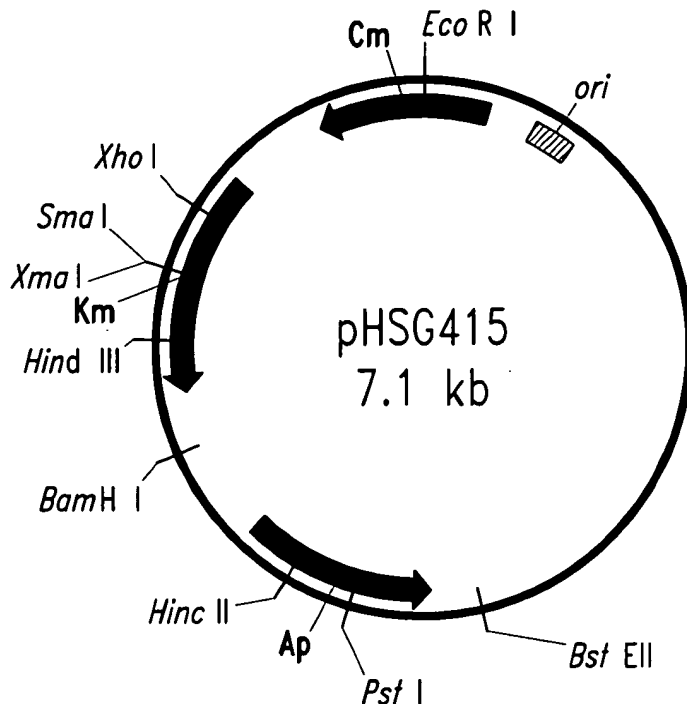


Fig. 2A

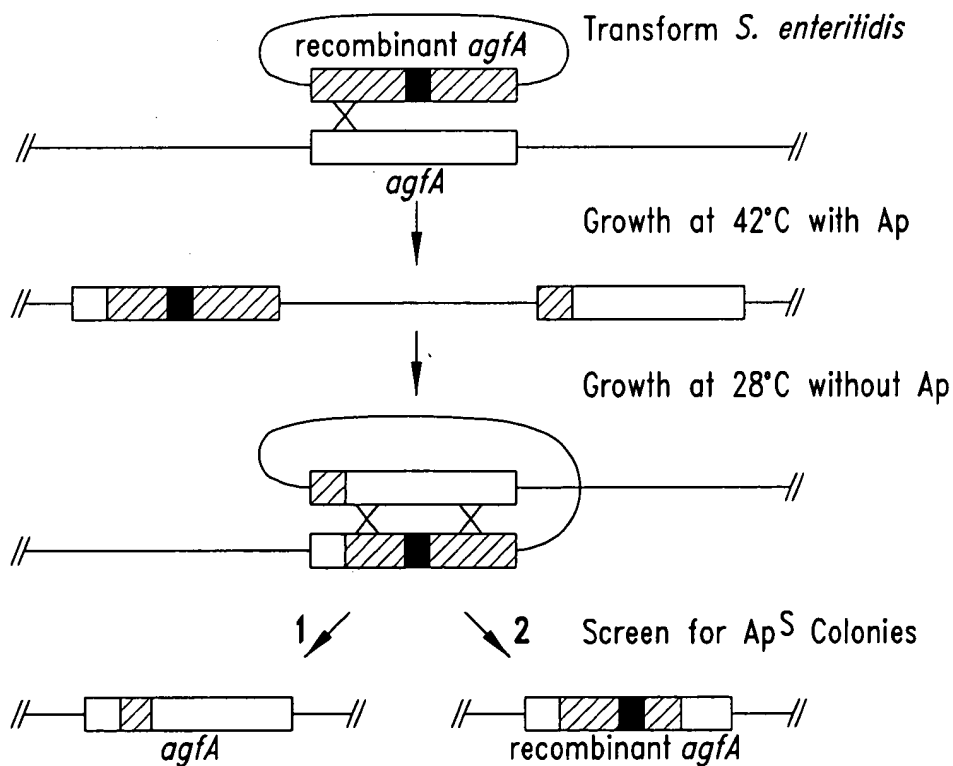


Fig. 2B



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PT3 epitope of *L. major*

YDQLVTRVVTHEMAHA
 -----XXXXXXXXX

Fig. 3A

AgfA amino acid sequence

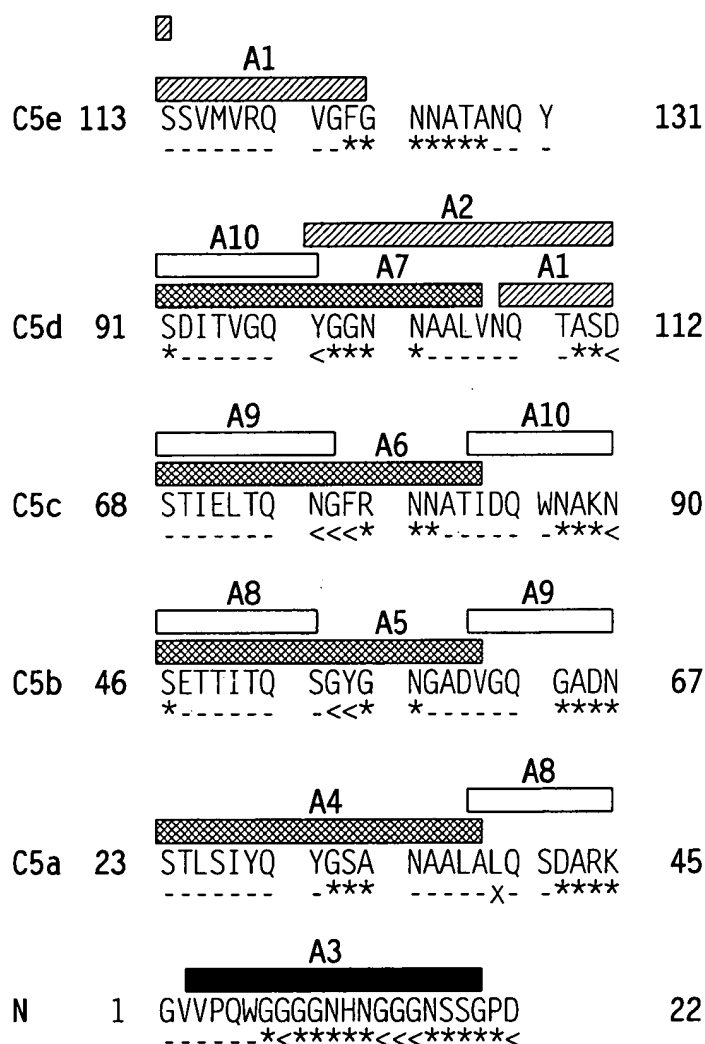


Fig. 3B



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Parallel β -helix model of AgfA

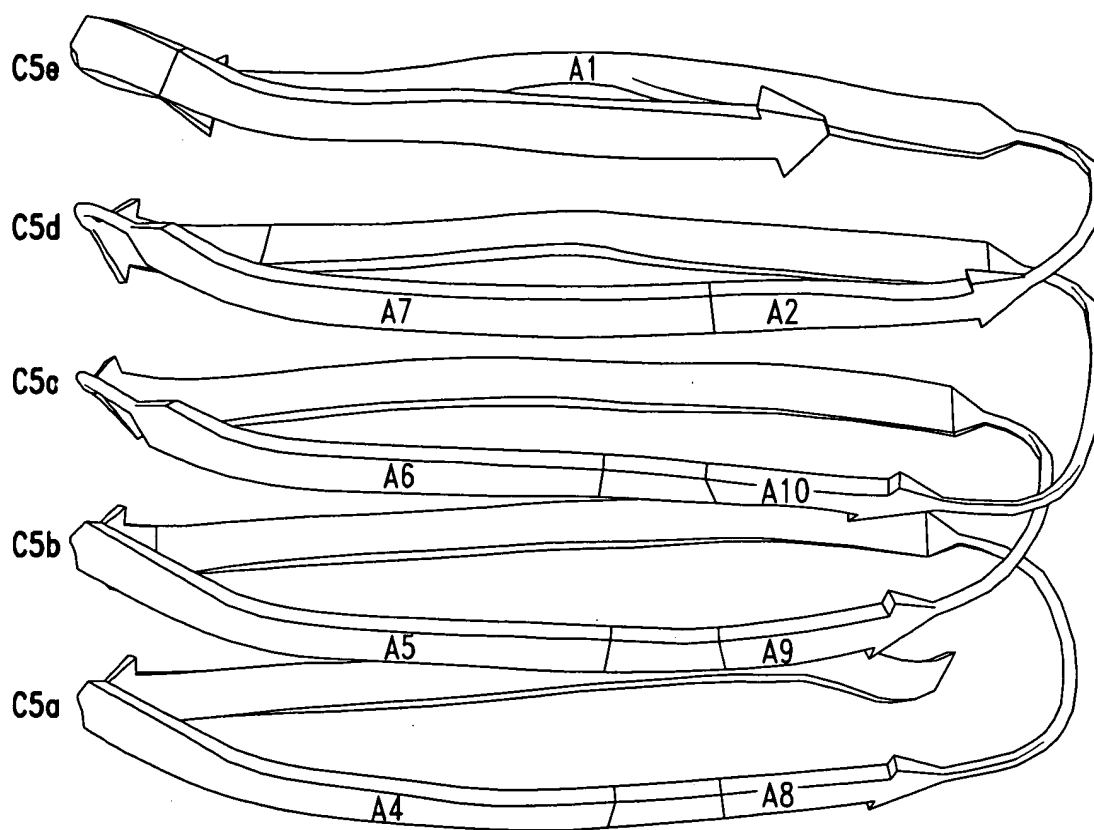


Fig. 3C

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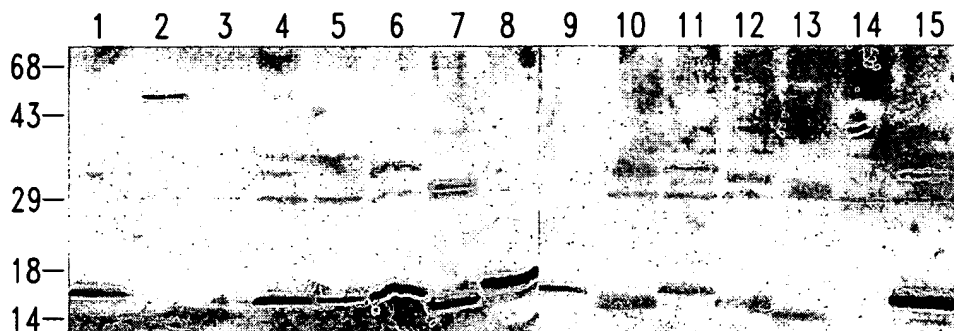


Fig. 4A

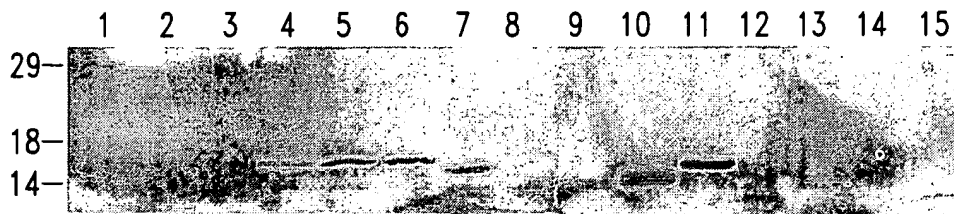


Fig. 4B

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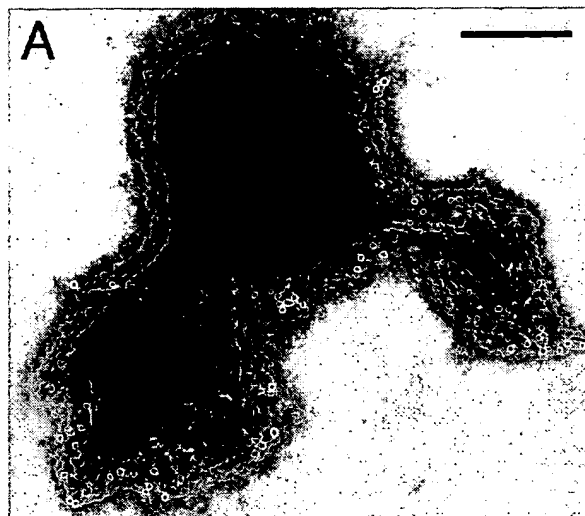


Fig. 5A

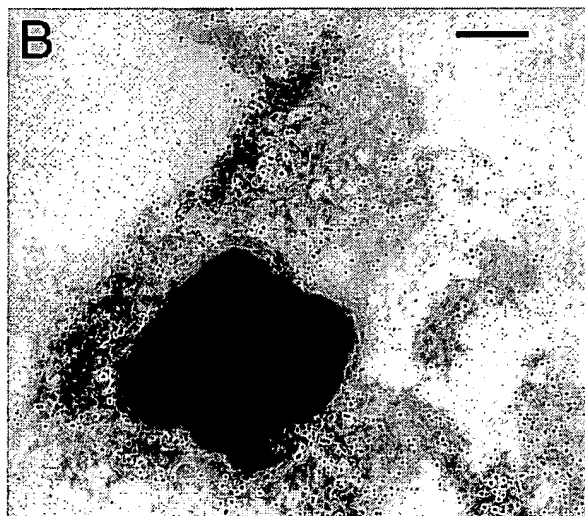


Fig. 5B

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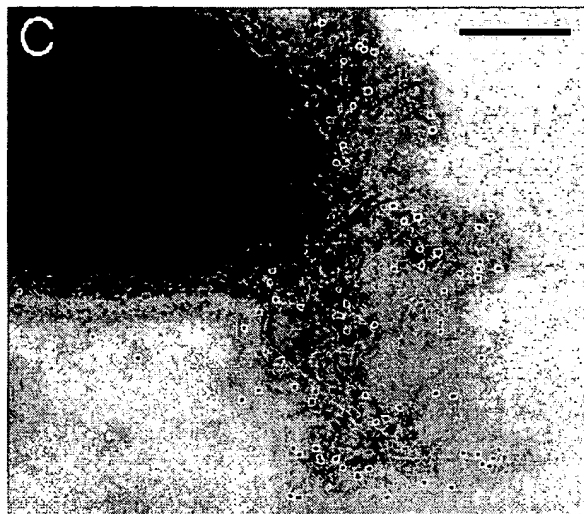


Fig. 5C

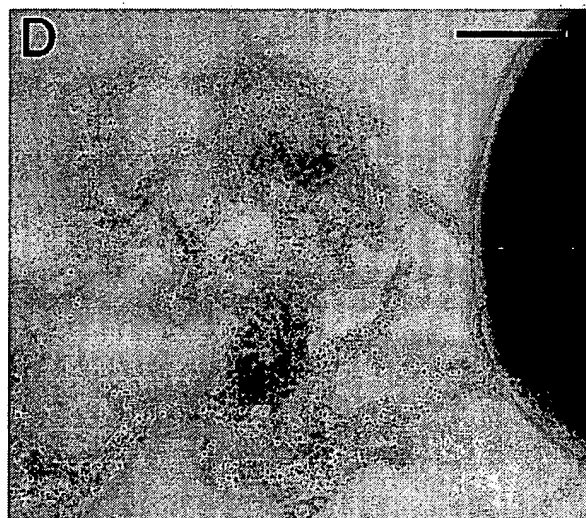


Fig. 5D



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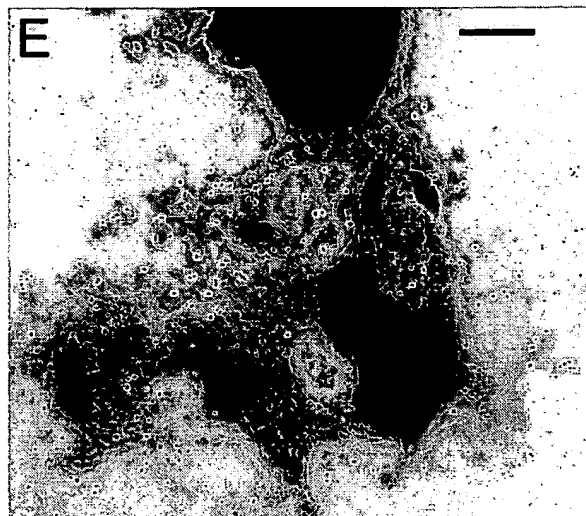


Fig. 5E

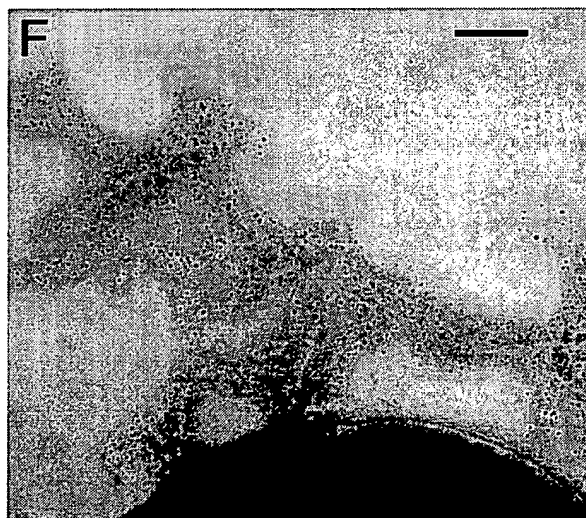


Fig. 5F



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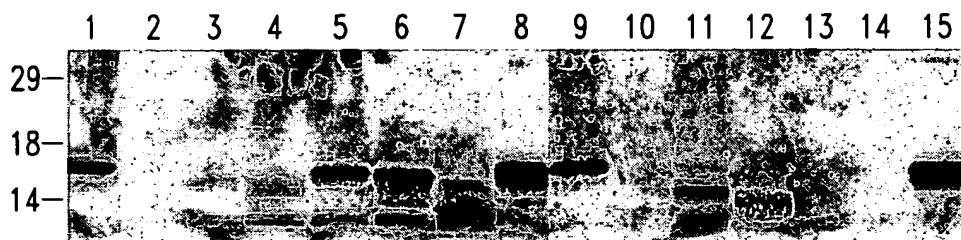


Fig. 6A



Fig. 6B

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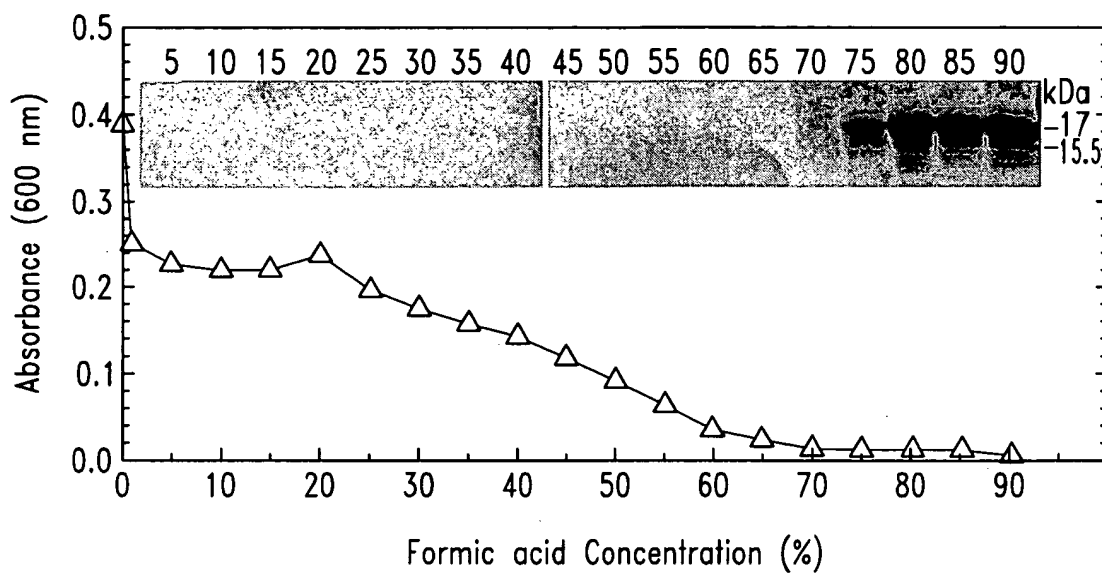


Fig. 7

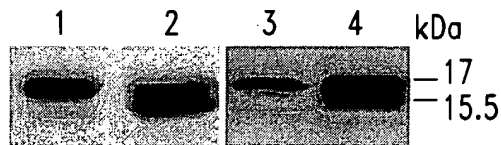


Fig. 8



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N (22)	C (109)				
N (22)	C2a (45)	C2b (44)			
N (22)	C5a (23)	C5b (24)	C5c (23)	C5d (24)	C5e (19)

Fig. 9A

C2a 43 ARKSETTITQSGYGNGADVGQGGADNSTIELTQNGFRNNA T I D Q W N
 C2b 88 - K N - D I - V G - Y - G N - A - L - N - T - S D - S V M V R - V - - G - - - - A N - Y

Fig. 9B

N	1	G	V	P	Q	W	G	G	G	G	N	H	N	G	G	N	S	S	G	P	D			
C5a	23	S	T	L	S	I	Y	Q	Y	G	S	A	N	A	G	A	L	A	L	A	R	K		
C5b	46	S	E	T	T	I	T	Q	S	G	Y	G	N	A	D	A	T	V	G	Q	A	D	N	
C5c	68	S	T	I	E	L	T	Q	N	G	F	R	N	A	T	I	D	Q	Q	W	N	A	K	N
C5d	91	S	D	I	T	V	G	Q	Y	G	G	N	A	A	L	V	N	Q	Q	-	T	A	S	D
C5e	113	S	S	V	M	V	R	Q	V	G	F	G	N	A	T	A	N	Q	Q	-	Y			

Fig. 9C



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1 3 5 7 9 12 14 16 18
 S x x x x x Q x G x x N x A x x x Q (x) x A x x

Fig. 9D

	S x I ϕ I x Q	N x I ϕ I x Q
C5a	L S I	A L A
C5b	T T I	A D V
C5c	I E L	A T I
C5d	I T V	A L V
C5e	V M V	A T A

Fig. 9E



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1	G	V	V	P	Q	W	G	G	G	G	N	H	N	G	G	G	N	S	S	G	P	D	
aix	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	
hie	c	c	e	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	
gar	e	e	e	e	e	e	c	t	c	c	c	c	c	t	t	t	c	c	c	c	c	t	
gib	e	e	e	e	e	e	c	c	c	c	e	c	c	c	c	c	c	c	c	c	c	c	
nnp						e																	
23	S	T	L	S	I	Y	Q	Y	G	S	A	N	A	A	L	Q	S	D	A	R	K		
aix	c	e	e	e	e	e	e	c	c	c	c	h	h	h	h	h	h	h	c	c	c	c	
hie	c	c	e	e	e	e	e	c	c	c	c	h	h	h	h	h	h	h	c	c	c	c	
gar	e	e	e	e	e	e	e	e	c	c	c	h	h	h	h	h	h	h	h	h	h	h	
gib	e	e	e	e	e	e	e	e	c	h	h	h	h	h	h	h	h	h	h	h	h	c	
nnp			e	e	e	e	e	e				h	h	h	h	h	h	h					
46	S	E	T	T	I	T	Q	S	G	Y	G	N	G	A	D	V	G	Q	G	A	D	N	
aix	c	c	e	e	e	e	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	
hie	c	c	e	e	e	e	e	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	
gar	c	e	e	e	e	e	e	e	t	t	c	c	e	e	e	e	e	e	c	c	c	c	
gib	c	e	e	e	e	e	e	e	e	c	c	c	c	e	e	e	e	e	c	c	c	c	
nnp			e	e	e	e	e																
68	S	T	I	E	L	T	Q	N	G	F	R	N	N	A	T	I	D	Q	W	N	A	K	N
aix	c	e	e	e	e	c	c	c	c	c	c	c	h	h	h	h	h	h	h	c	c	c	c
hie	c	e	e	e	e	c	c	c	c	c	c	c	c	c	e	e	h	c	c	c	c	c	c
gar	e	e	e	e	e	e	e	t	t	t	c	c	c	e	e	e	e	e	e	c	c	c	t
gib	c	e	e	e	e	e	e	h	c	c	e	c	c	h	h	h	h	h	h	h	h	c	c
nnp			e	e	h	h																	
91	S	D	I	T	V	G	Q	Y	G	G	N	N	A	A	L	V	N	Q	T	A	S	D	
aix	c	c	e	e	e	e	c	c	c	c	c	c	h	h	h	h	h	h	c	c	c	c	c
hie	c	c	e	e	e	e	e	c	c	c	c	c	e	e	e	e	e	c	c	c	c	c	c
gar	c	e	e	e	e	e	e	t	c	c	c	c	e	e	e	e	e	e	e	c	c	c	t
gib	c	c	e	e	e	e	e	e	c	c	c	c	c	h	e	e	e	e	e	c	c	c	c
nnp			e	e	e	e									h	h	h	h					
113	S	S	V	M	V	R	Q	V	G	F	G	N	N	A	T	A	N	Q	Y				
aix	c	c	e	e	e	e	e	e	e	c	c	c	c	c	c	c	c	c	c				
hie	c	e	e	e	e	e	e	e	e	c	c	c	c	c	c	c	c	c	c				
gar	e	e	e	e	e	e	e	e	e	c	c	c	c	c	c	c	e	e	e				
gib	c	c	e	e	e	e	e	e	e	e	c	c	c	c	c	h	c	h	e				
nnp			e	e	e	e	e																

Fig. 10



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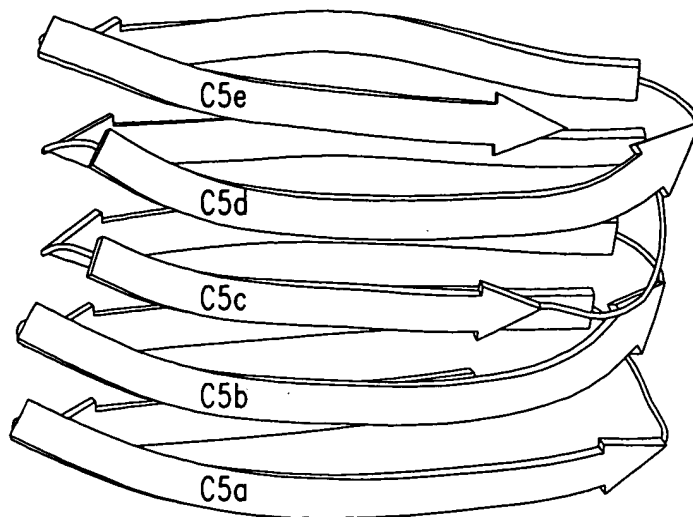


Fig. 11A

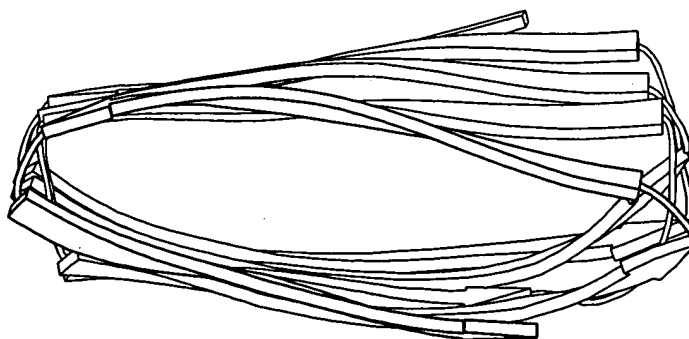


Fig. 11B

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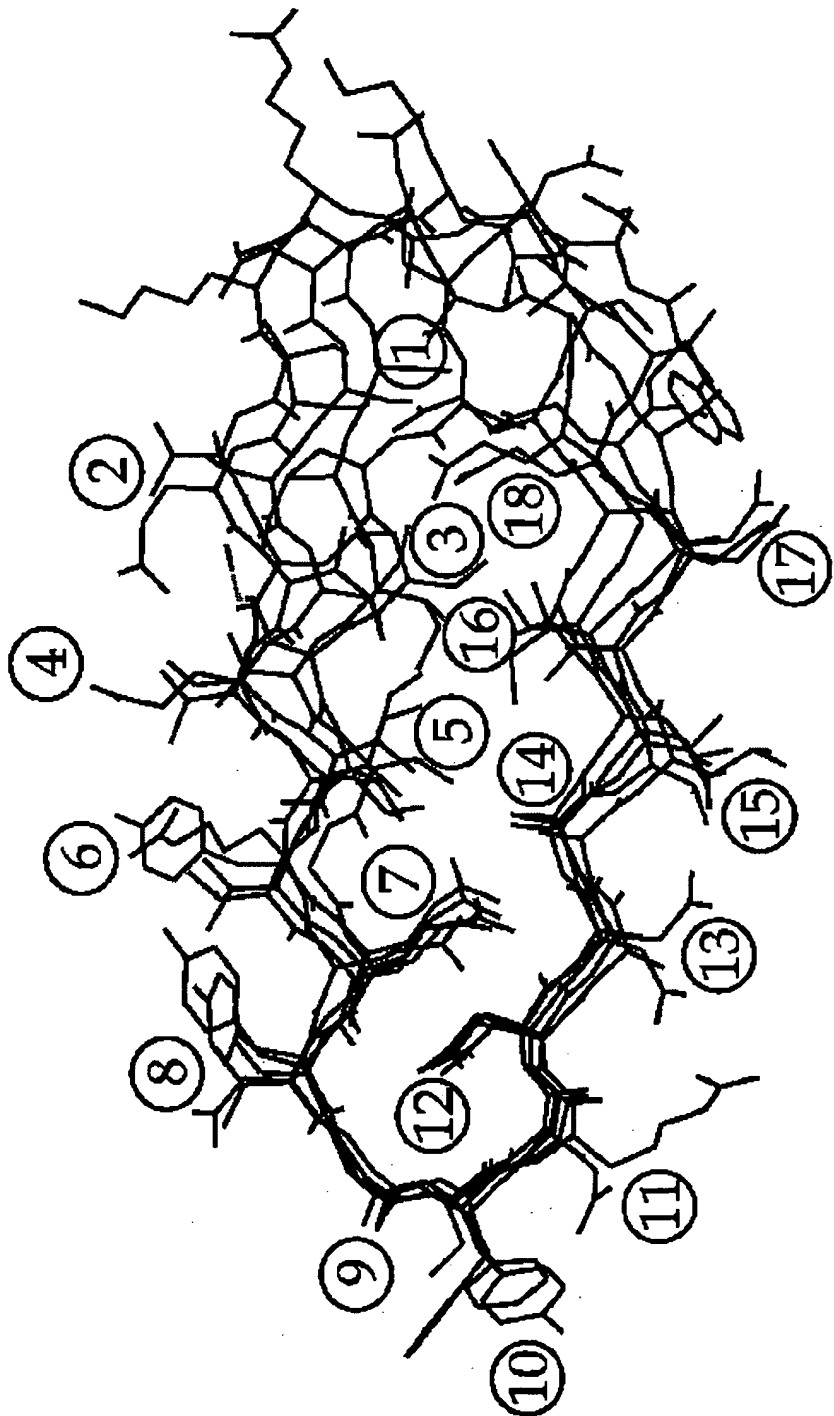


Fig. 11C



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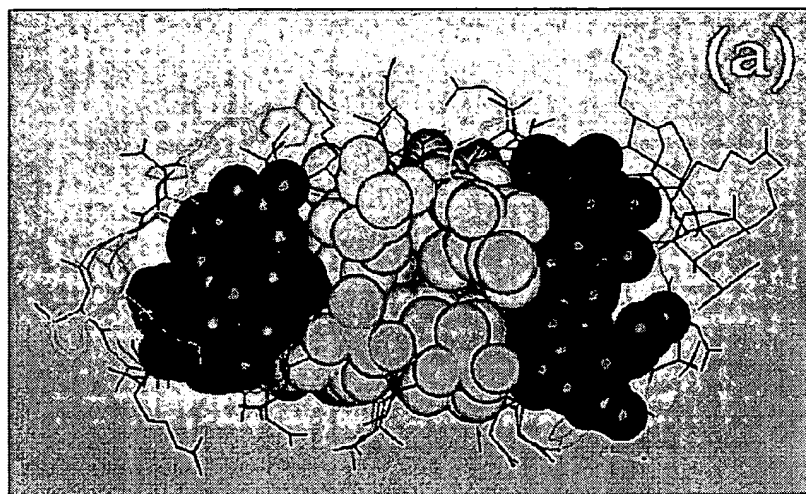


Fig. 12A

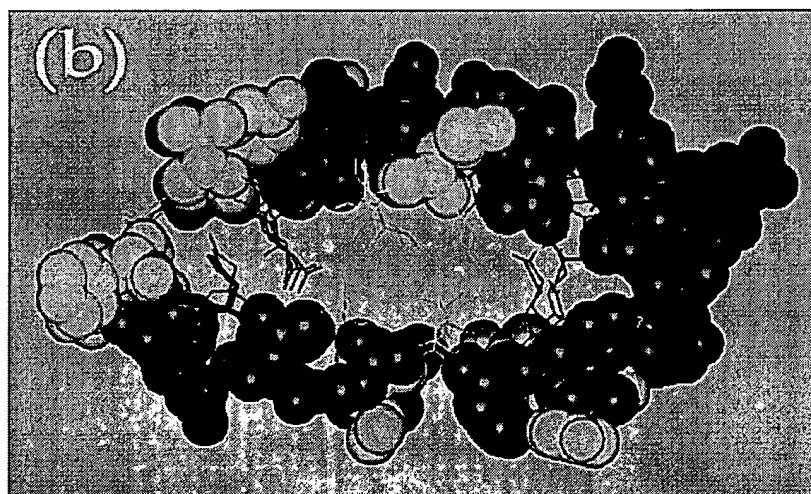
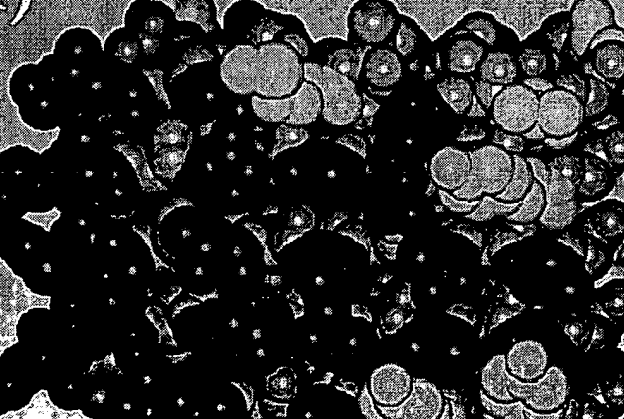
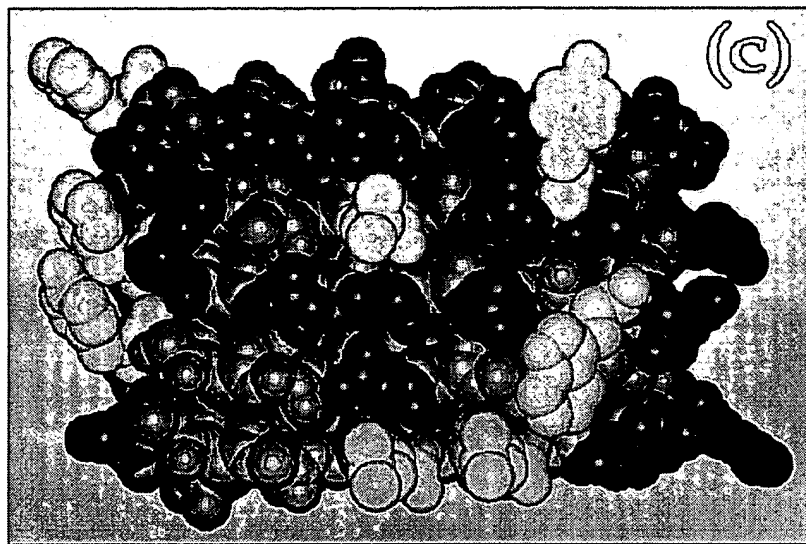


Fig. 12B



(d)

Fig. 12D



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1601100713 160022000

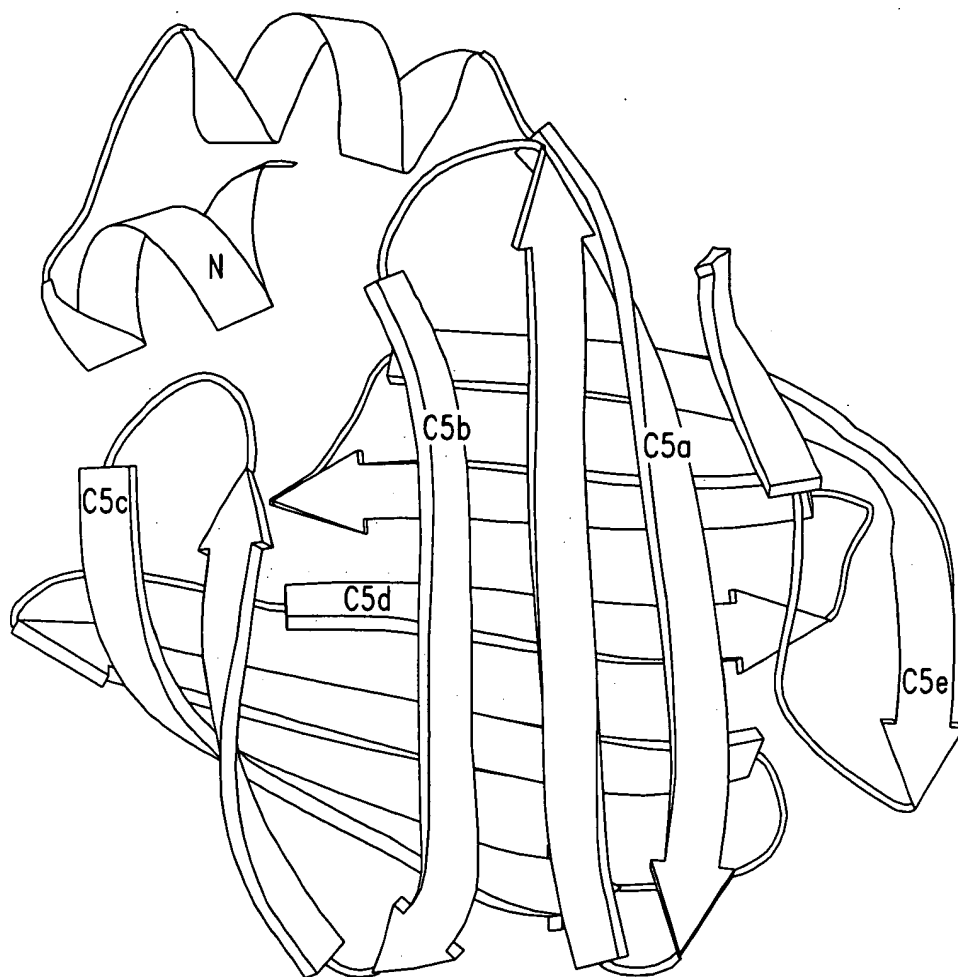


Fig. 13A



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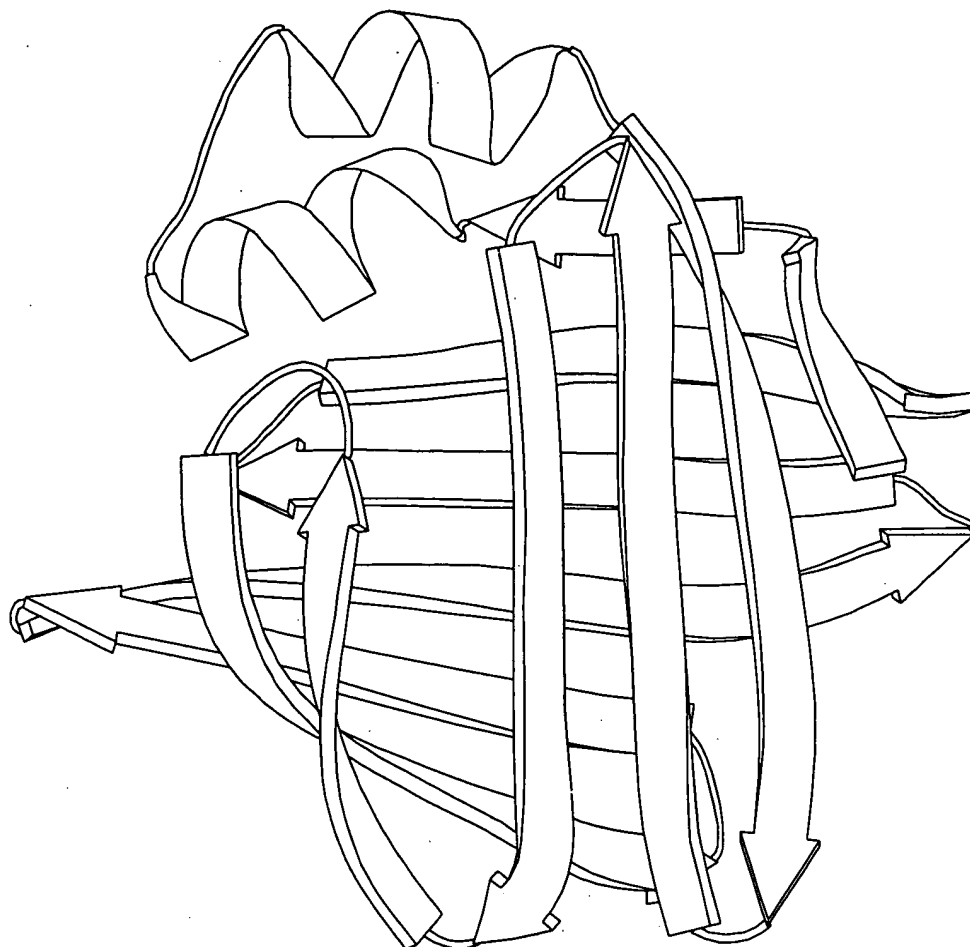


Fig. 13B



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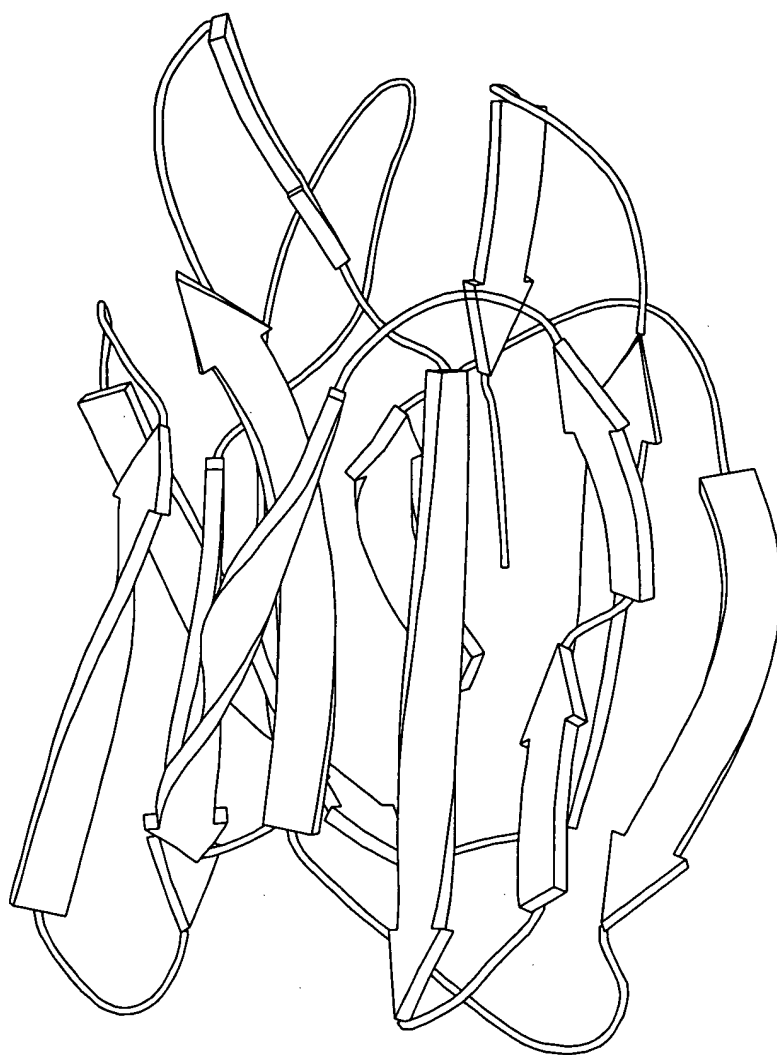


Fig. 14A



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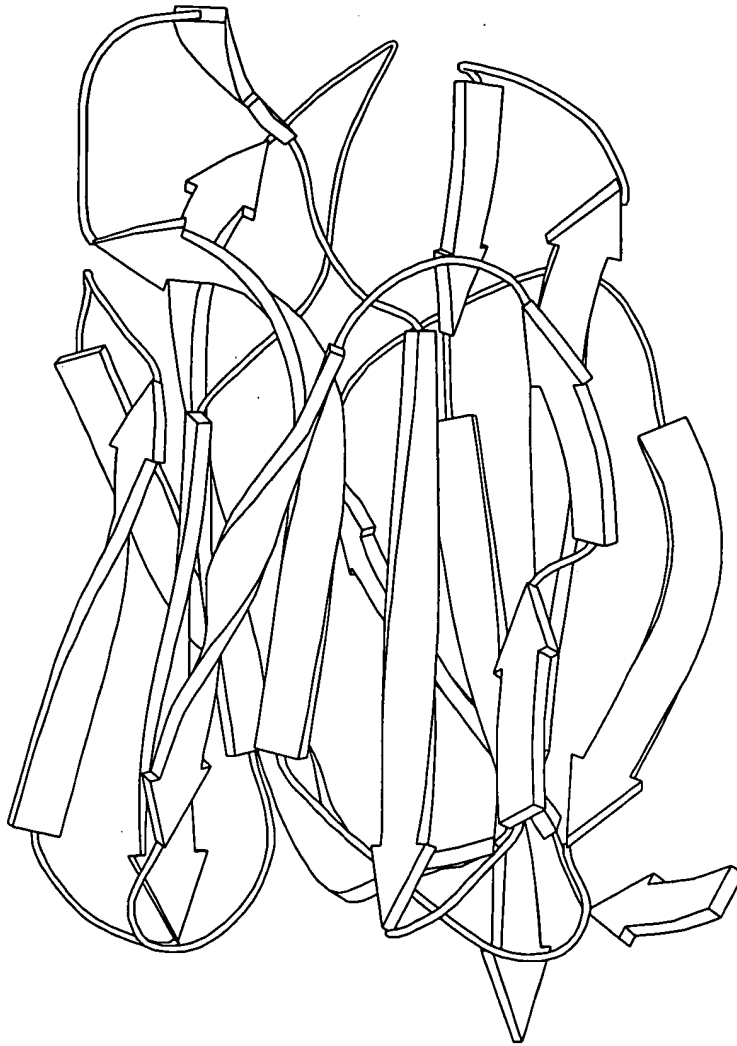


Fig. 14B



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		●	○	●	○	●	○	●	t	t	t	t	●	○	●	○	●	○	●	t	t	t	t	t
				i	φ	i									i	φ	i							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		S	T	L	S	I	Y	Q	Y	G	S	A	N	A	A	L	A	L	Q	S	D	A	R	K
AgfA		S	E	T	T	I	T	Q	S	G	Y	G	N	G	A	D	V	G	Q	-	G	A	D	N
		S	T	I	E	L	T	Q	N	G	F	R	N	N	A	T	I	D	Q	W	N	A	K	N
		S	D	I	T	V	G	Q	Y	G	G	N	N	A	A	L	V	N	Q	-	T	A	S	D
		S	S	V	M	V	R	Q	V	G	F	G	N	N	A	T	A	N	Q	Y				
		S	E	L	N	I	Y	Q	Y	G	G	G	N	S	A	L	A	L	Q	T	D	A	R	N
CsgA		S	D	L	T	I	T	Q	H	G	G	G	N	G	A	D	V	G	Q	-	G	S	D	D
		S	S	I	D	L	T	Q	R	G	F	G	N	S	A	T	L	D	Q	W	N	G	K	N
		S	E	M	T	V	K	Q	F	G	G	G	N	G	A	A	V	D	Q	-	T	A	S	N
		S	S	V	N	V	T	Q	V	G	F	G	N	N	A	T	A	H	Q	Y				

Fig. 15

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SMP	328	I E N A I G G S G - N D - V I V G N A A N N	347
	348	V L K G G A G - N D - V L F G G G G A D	365
	366	E L W G G A G - K D I F V F S A A S D	383
AgfA	23	S T L S I Y Q Y G S A N A A L A L Q S D A R K	45
	46	S E T T I T Q S G Y G N G A D V G Q G A D N	67
	68	S T I E L T Q N G F R N N A T I D Q W N A K N	90

Fig. 16A

PMP	40	V I I S K K G D I I T I R T - E S P F K N T E	61
	62	I S F K L G Q E F E E T T A D N R K T K S T V T L	86
AgfA	25	L S I Y Q Y G S A N A A L A L Q S D A R K S E	47
	48	T T I T Q S G Y G N G A D V G Q G A D N S T I E L	72

Fig. 16B

VMO-I	34	F A L K V E P S Q F G R D D T A L N G	52
	37	F S L R S E K S Q G G G D D T A A N N	105
	138	L Q T K V E S P Q G L R D D T A L N N	156
	25	L S I - Y Q - - Y G S A N A A L A L Q	40
	70	I E L - T Q - - N G F R N N A T I D Q	85
	115	V M V - R Q - - V G F G N N A T A N Q	130

Fig. 16C



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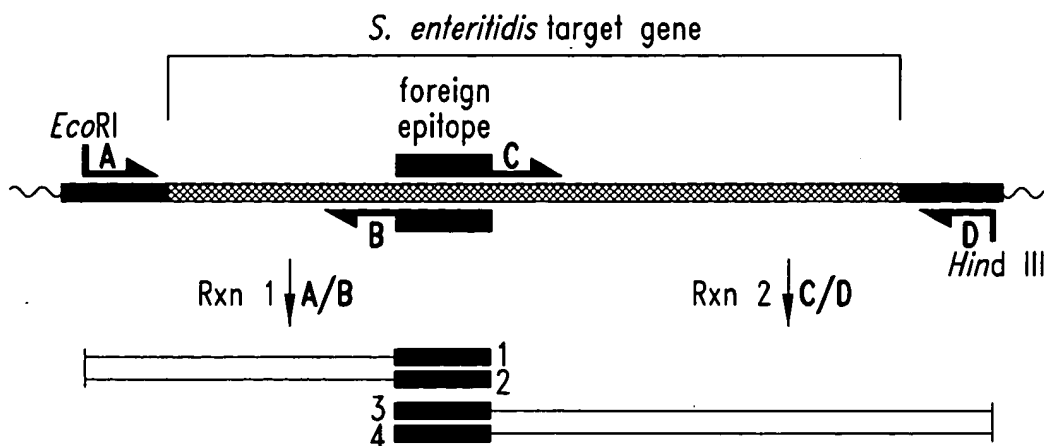


Fig. 17A

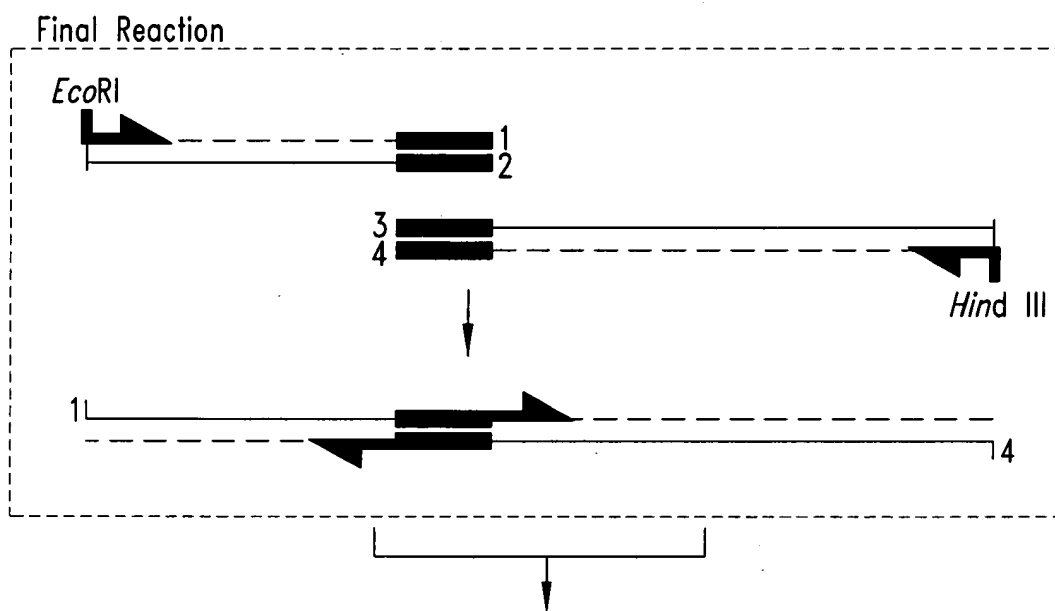


Fig. 17B

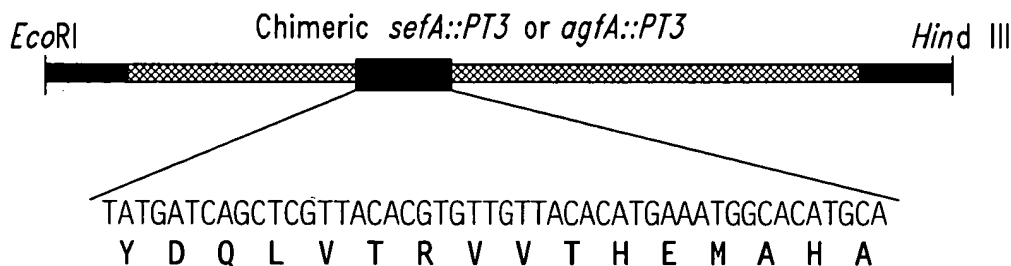


Fig. 17C

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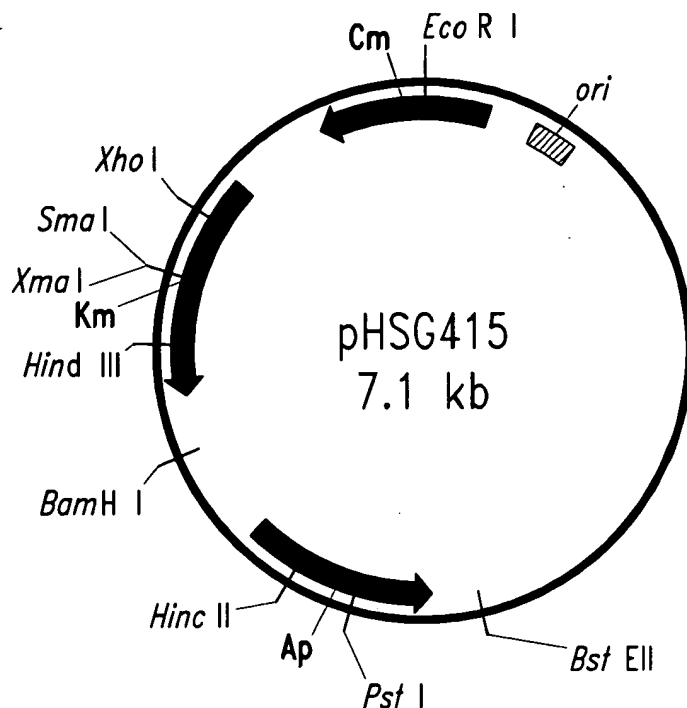


Fig. 18A

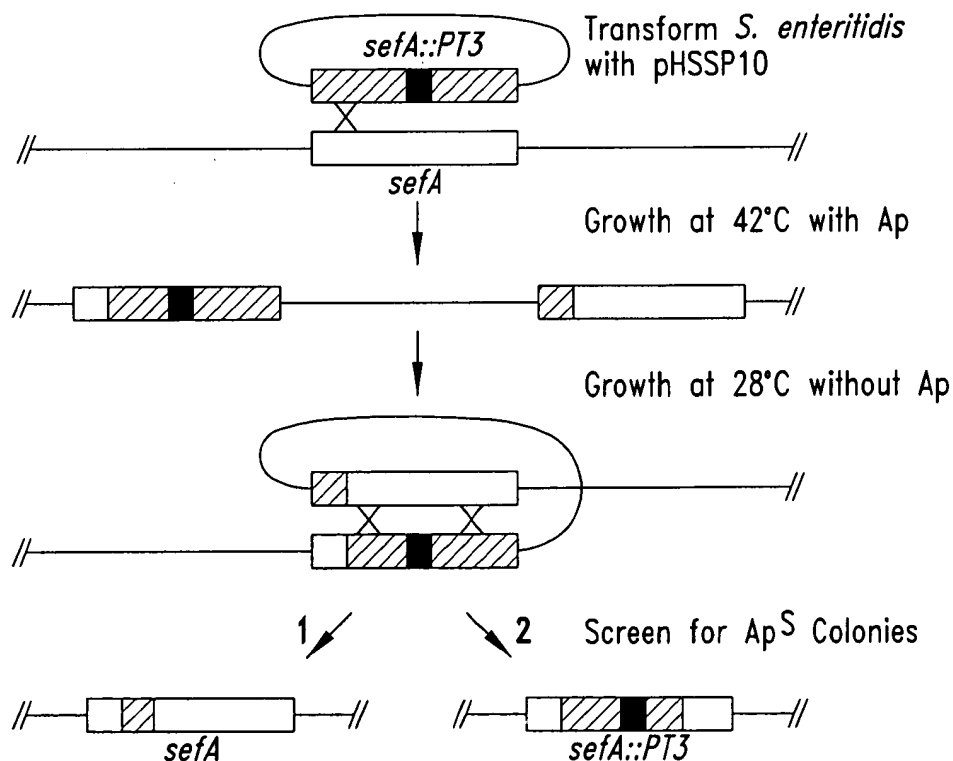


Fig. 18B

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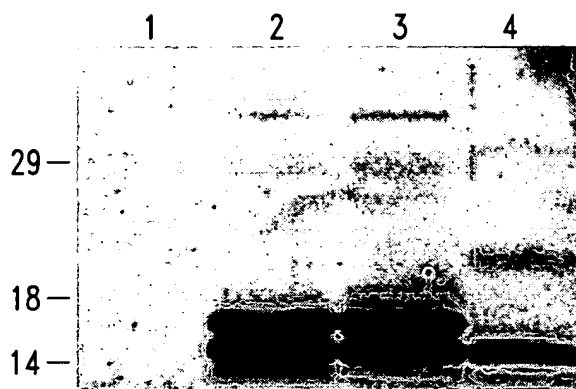


Fig. 19A

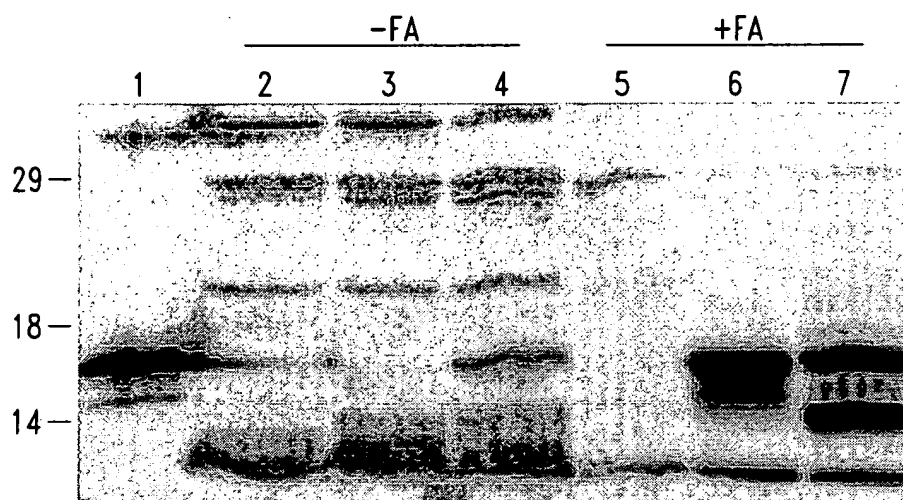


Fig. 19B

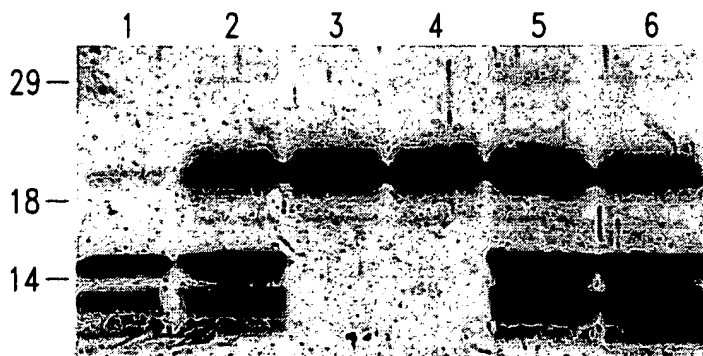


Fig. 20



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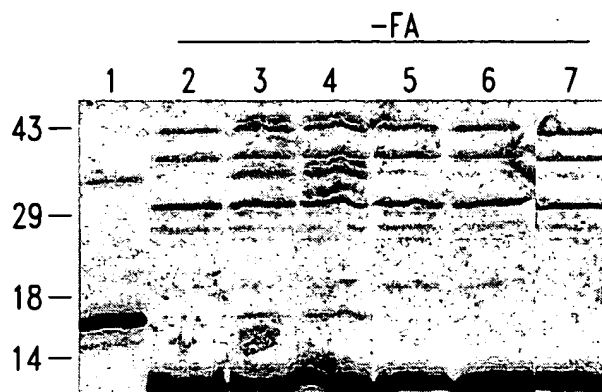


Fig. 21A

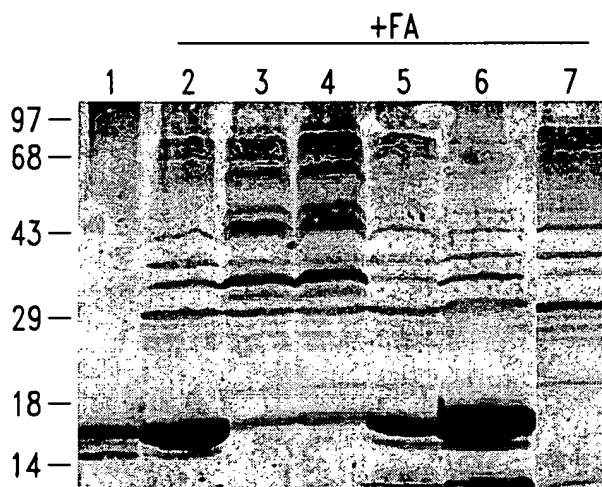


Fig. 21B

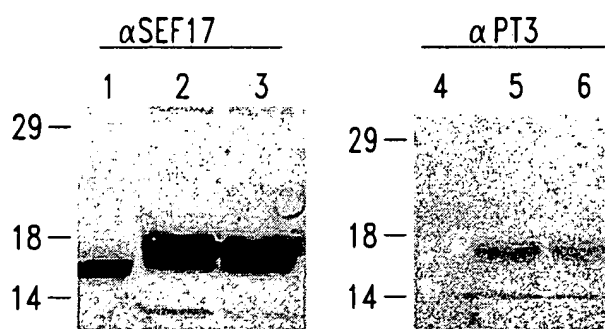


Fig. 22



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PT3 epitope of *L. major*

YDQLVTRVVTHEMAHA

Fig. 23A

SefA amino acid sequence

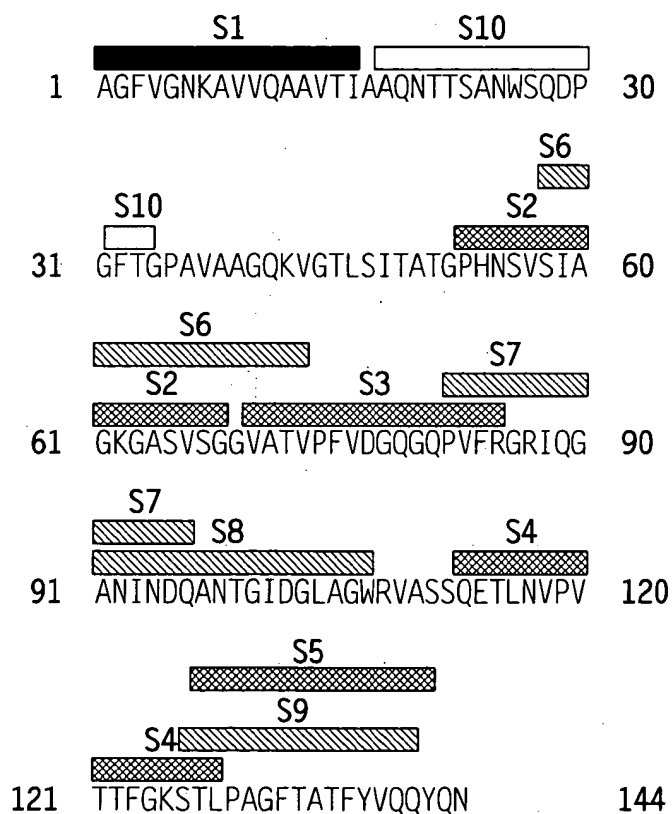


Fig. 23B



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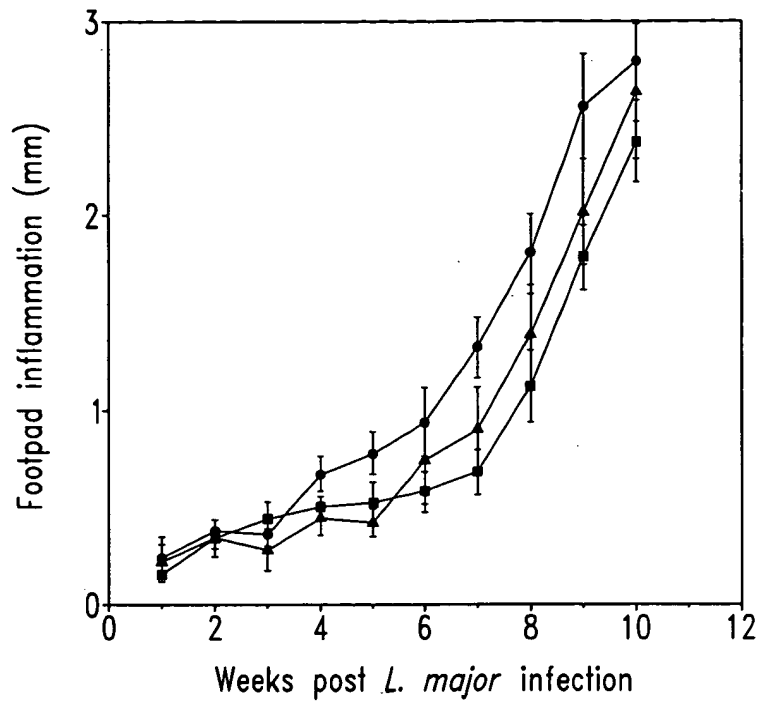


Fig. 24A

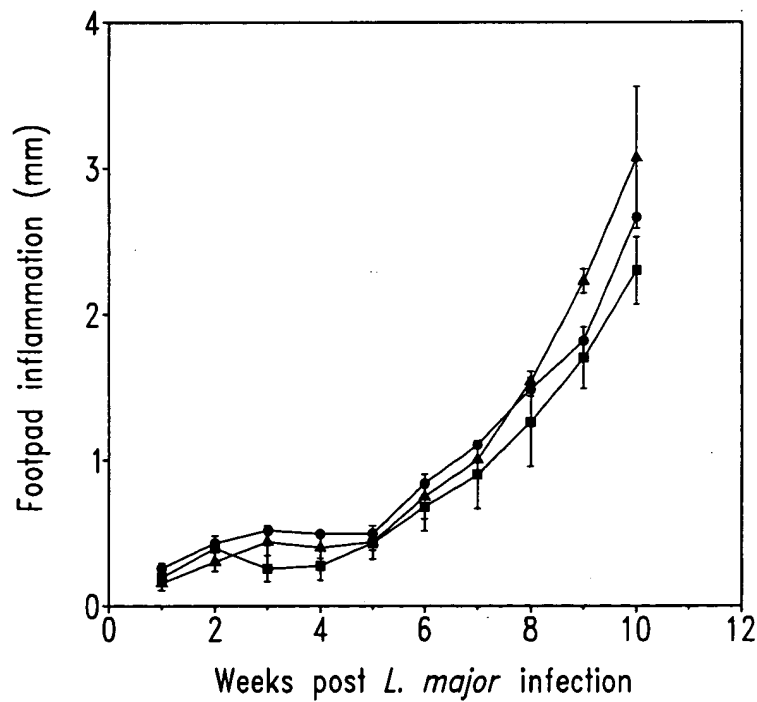


Fig. 24B



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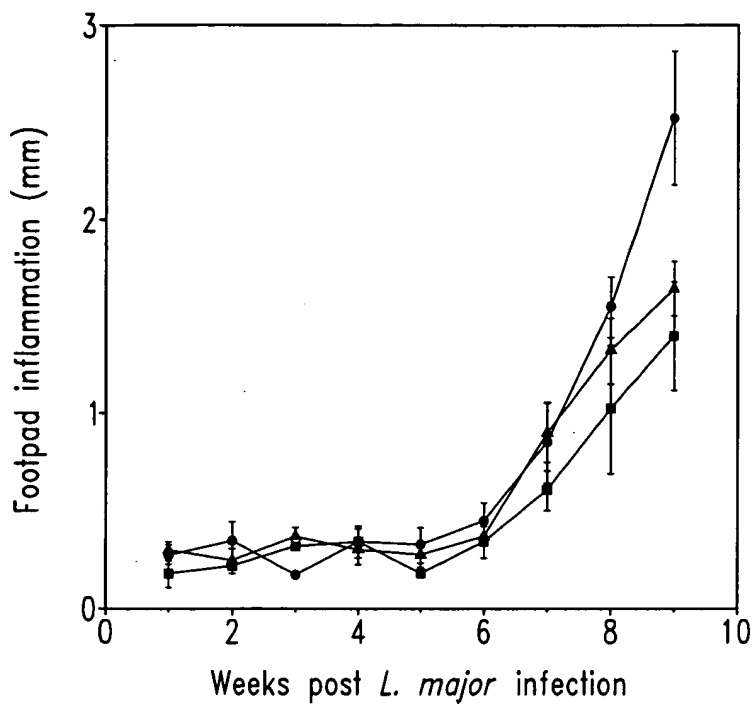


Fig. 24C

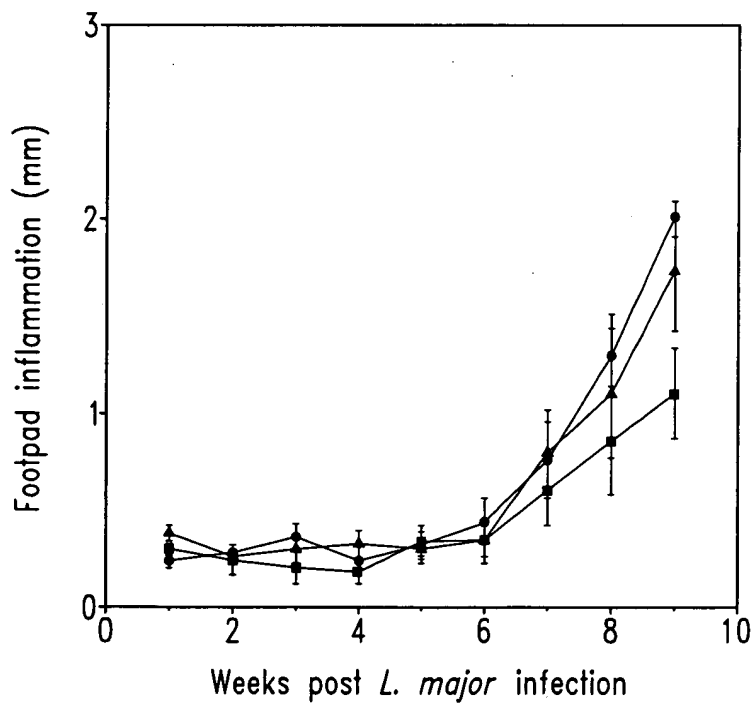


Fig. 24D



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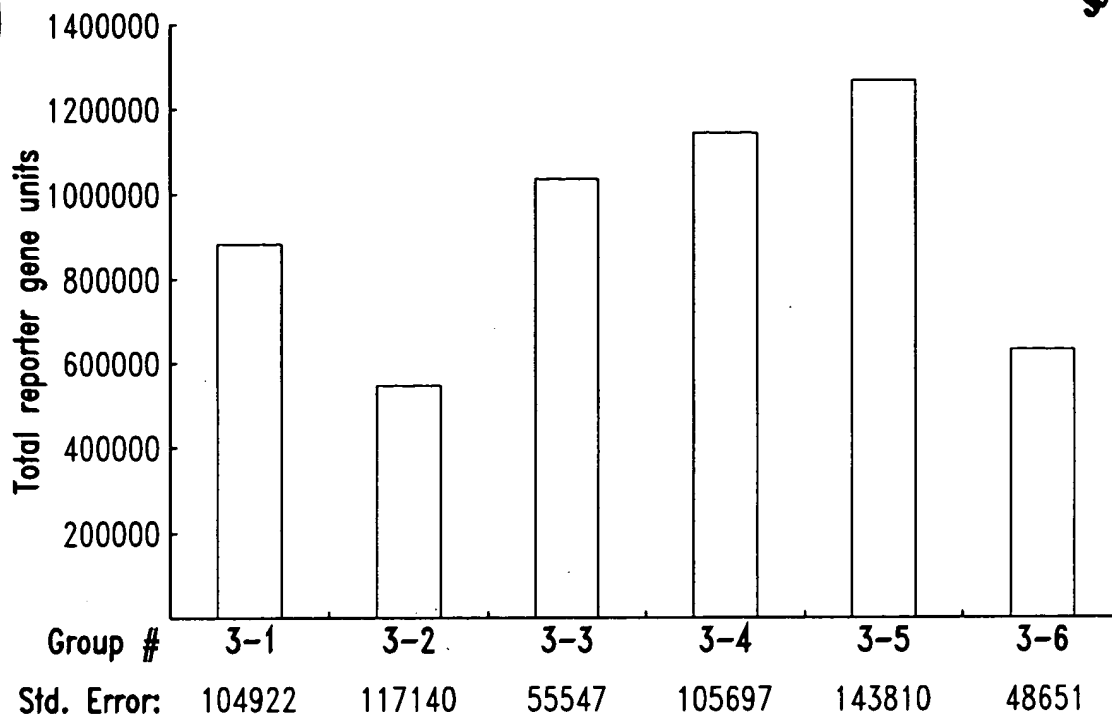


Fig. 25A

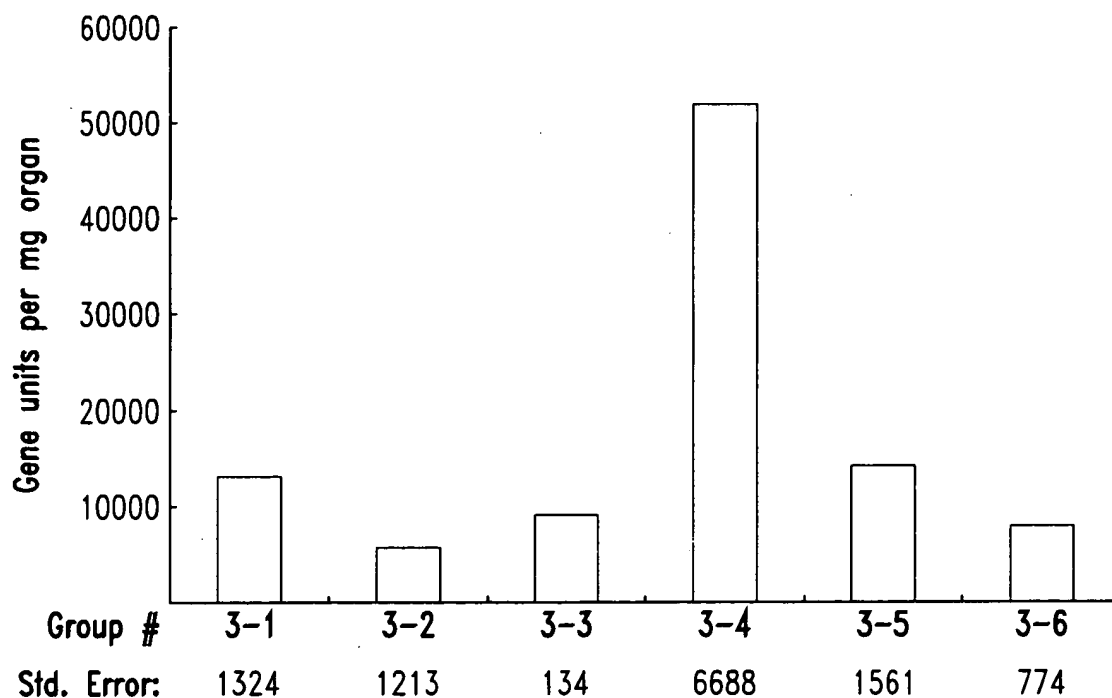


Fig. 25B



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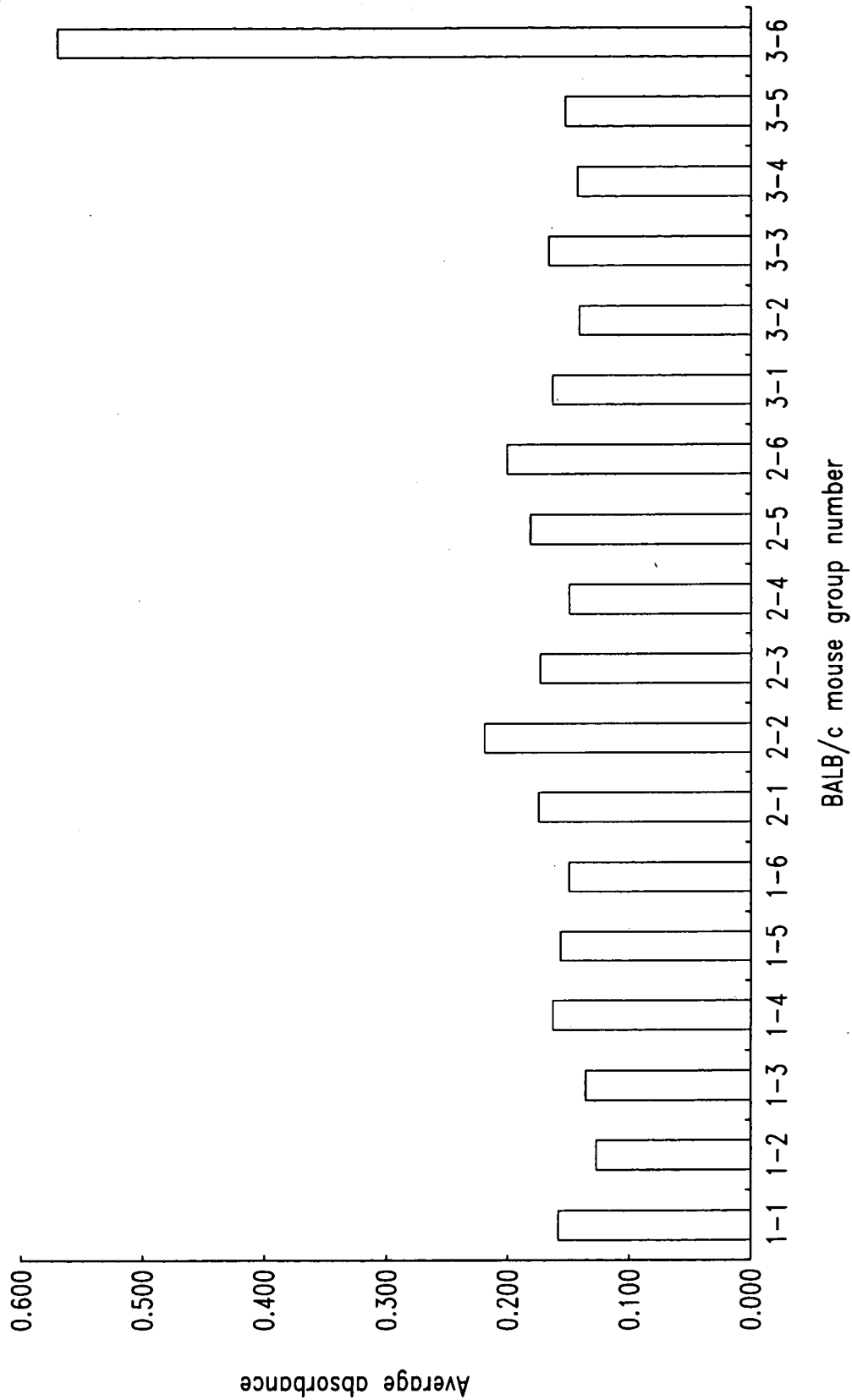


Fig. 26A

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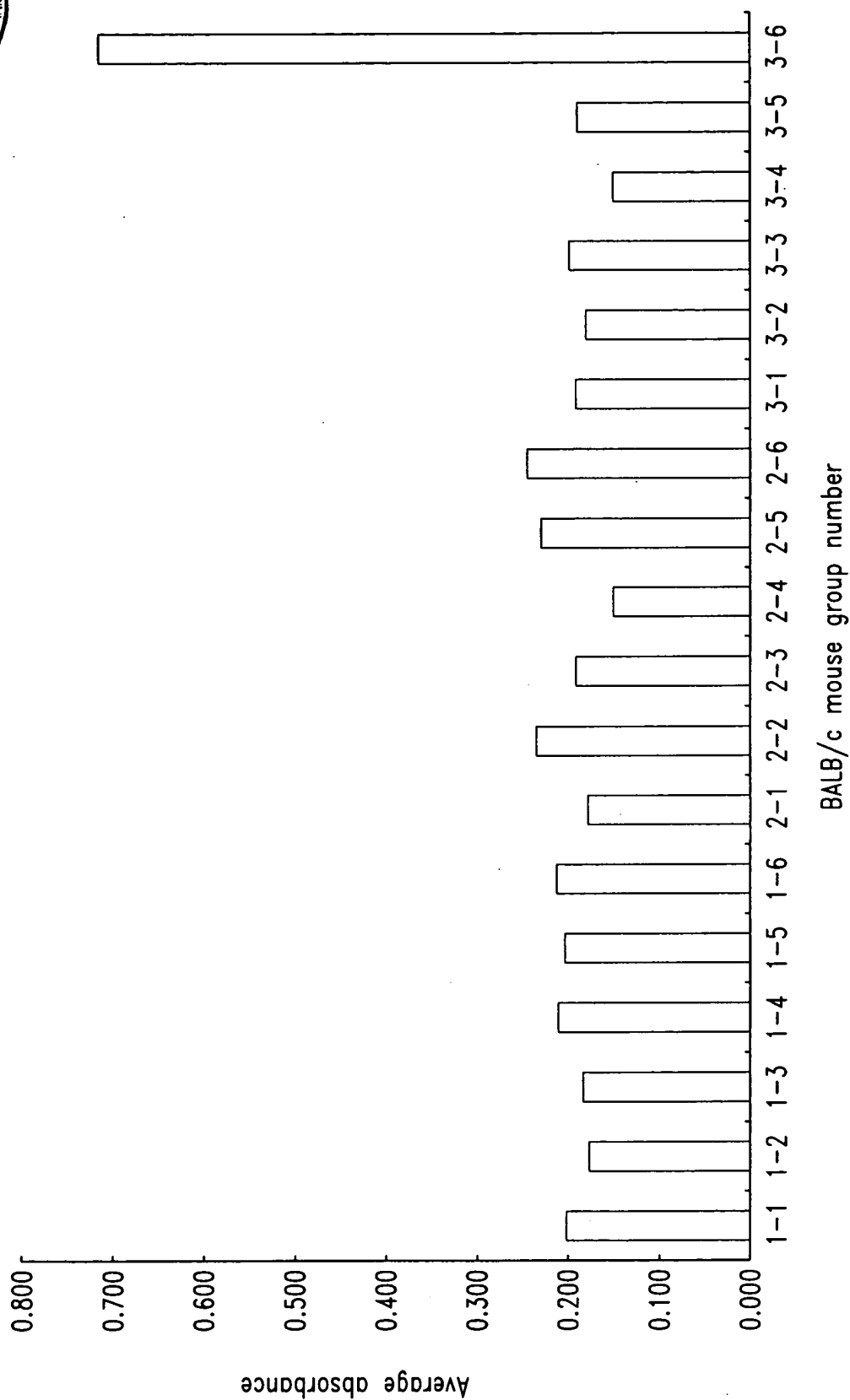


Fig. 26B



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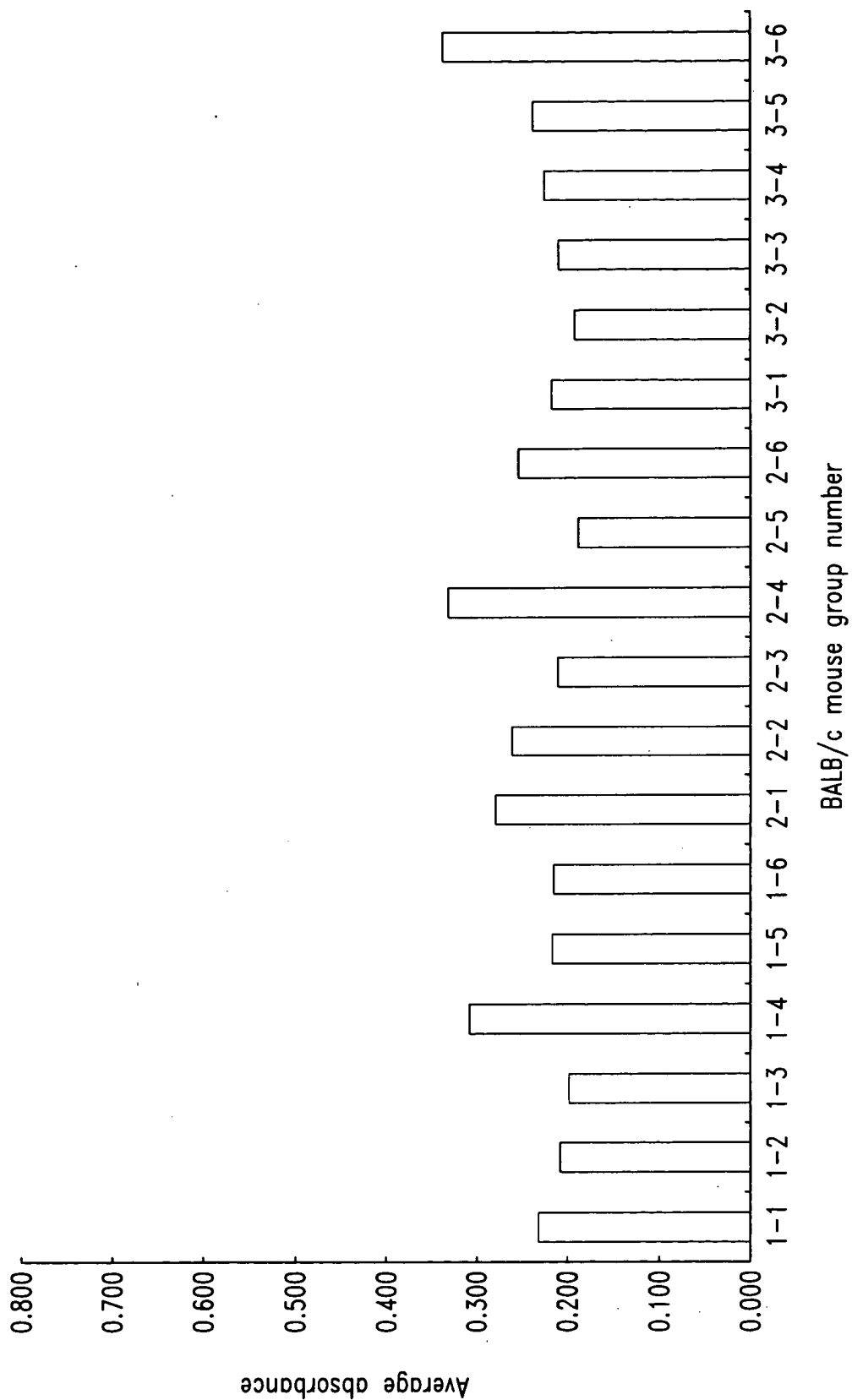


Fig. 26C